Reviewer’s report

Title: Influence of electromagnetic radiation emitted by daily-use electronic devices on the Eyemate® system in-vitro: a feasibility study

Version: 0 Date: 29 May 2020

Reviewer's report:

This study is an interesting experimental study using three electronic devices that can produce electromagnetic radiation, which might interfere with eyemate(R)-IO readings. The methods seem to be adequate, and results are well presented. However, some points should be addressed, aiming at the enhancement of its quality.

1. The range of the non-ionizing electromagnetic radiation used should be presented;

2. The radiation produce by those devices (non-ionizing radiation/electromagnetic field) could be measured using handheld monitoring devices. Thus, the authors should present the readings of the radiation produced in the experimental environment for each of the device tested.

3. Limitations related to the narrow range of radiation frequencies used must be addressed. For example, patients may be exposed to X-ray (an important source of radiation);

4. Moreover, authors should discuss how far their proposed experimental model would be from the effects expected/observed in a eyemate(r)-IO implanted in a real human eye. At least, this limitation should also be explored in the discussion section.

Are the methods appropriate and well described?
If not, please specify what is required in your comments to the authors.

Yes

Does the work include the necessary controls?
If not, please specify which controls are required in your comments to the authors.

Yes

Are the conclusions drawn adequately supported by the data shown?
If not, please explain in your comments to the authors.

Yes
Are you able to assess any statistics in the manuscript or would you recommend an additional statistical review? If an additional statistical review is recommended, please specify what aspects require further assessment in your comments to the editors.

I am able to assess the statistics

**Quality of written English**
Please indicate the quality of language in the manuscript:

Needs some language corrections before being published

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